

Product Data Sheet

Product Name: MAPK-IN-2

Cat. No.: GC73590

Chemical Properties

Cas. No.

Formula $C_{20}H_{11}Cl_2N_3O$

M.Wt 380.23

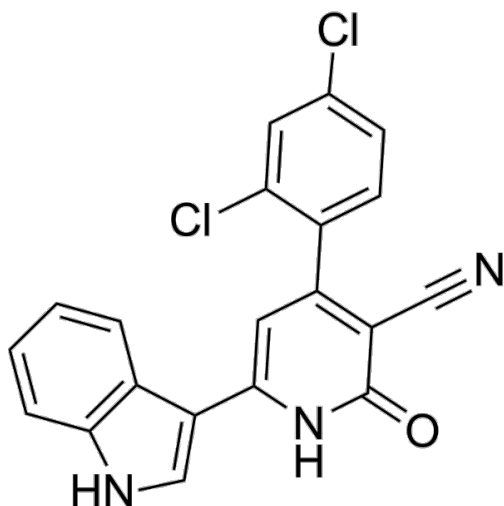
Solubility

Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

MAPK-IN-2 (compound 3h) is a potent MAPK inhibitor with antineoplastic activity. MAPK-IN-2 inhibits cancer cell proliferation among several cancer cell lines, and suppresses MAPK pathway with potent efficacy (EGFRWT $IC_{50}=281$ nM, c-MET $IC_{50}=205$ nM, B-RAFWT $IC_{50}=112$ nM, and CDK4/6 $IC_{50}=95$ and 184 nM, respectively). MAPK-IN-2 even shows a remarkable potency against mutated EGFR and B-RAF (EGFRT790M $IC_{50}=69$ nM and B-RAFV600E $IC_{50}=83$ nM).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

[1]. Saleh MM, et al. The mystery of titan hunter: Rationalized striking of the MAPK pathway via Newly synthesized 6-Indolylpyridone-3-Carbonitrile derivatives. Eur J Med Chem. 2023 Nov 5;259:115675.

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